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	Application No.	Applicant(s)
Nation of Allowability	10/003,240	DANIELSON ET AL.
Notice of Allowability	Examiner	Art Unit
	Anita K Alanko	1765
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
 This communication is responsive to <u>8/28/03 amdt & 12/1/0</u> The allowed claim(s) is/are <u>1-14 and 28-43</u>. 	03 electrion and response.	
3. The drawings filed on 26 October 2001 are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
 (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso 1) ☐ hereto or 2) ☐ to Paper No 		948) attached
(b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.		
(c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).		
9. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR THE	sit of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT	oust be submitted. Note the ERIAL.
Attachment(s)		
1⊠ Notice of References Cited (PTO-892)	5 ☐ Notice of Informal Pate	ent Application (PTO-152)
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. 8/28/03 	6☐ Interview Summary (P	PTO-413), Paper No
), 7☐ Examiner's Amendme	nt/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statement 9⊡ Other	of Reasons for Allowance
		Anita IZ Alambia
		Anita K Alanko Primary Examiner Art Unit: 1765

Application/Control Number: 10/003,240

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Allowable Subject Matter

Claims 1-14 and 28-43 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art does not teach or suggest a process of etching a ball-limiting metallurgy (BLM) stack comprising etching a BLM stack disposed over a metallization, in the presence of a nitrogen-containing heterocyclic compound, an ammonium hydroxide compound, an oxidizer, and a metal halide compound, as in the context of claim 1.

The closest prior art, David et al, discloses etching a BLM stack with an etchant and David teaches several etchants, however there is no suggestion to use the combination cited, that of a nitrogen-containing heterocyclic compound, an ammonium hydroxide compound, an oxidizer, and a metal halide compound to etch a BLM stack disposed over a metallization, as in the context of claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita K Alanko whose telephone number is 571-272-1458. The examiner can normally be reached on Mon, Tues & Fri: 8:30 am-5 pm; Wed&Thurs:10 am-2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Anita K Alanko Primary Examiner

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